



Inter-Mountain Labs

1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Date: 7/28/2017

CLIENT: Consolidated Analytical Systems
Project: S.H.Bell- Chicago, IL
Lab Order: S1707250

CASE NARRATIVE
Report ID: S1707250001

Samples 527.167 S4HV1-070617-R, and 527.168 S4HV2-070917-R were received on July 14, 2017.

All samples were received and analyzed within the EPA recommended holding times, except those noted below in this case narrative. Samples were analyzed using the methods outlined in the following references:

"Standard Methods For The Examination of Water and Wastewater", approved method versions
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition
40 CFR Parts 136 and 141
40 CFR Part 50, Appendices B, J, L, and O
Methods indicated in the Methods Update Rule published in the Federal Register Friday, May 18, 2012
ASTM approved and recognized standards

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

A handwritten signature in cursive script that reads 'John M. Jacobs'.

John Jacobs, Project Manager



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Sample Analysis Report

CLIENT: Consolidated Analytical Systems

201 S. Miami Ave

Cleves, OH 45002

Date Reported: 7/28/2017

Report ID: S1707250001

Client Sample ID: 527.167 S4HV1-070617-R

Project: S.H.Bell- Chicago, IL

Matrix: airfilter

COC ID: WEB

Collection Date: 7/6/2017

Date Received: 7/14/2017 10:50:00 AM

Lab ID: S1707250-001

Work Order: S1707250

Analyses	Result	RL	MDL	Qual	Units	Method	Date Analyzed/Init
Field							
Actual Volume	1672				m ³	Field	07/06/2017 000
IO-3.5 TSP							
Arsenic	2.46	5	0.628	J	µg/Filter	IO-3.5	07/19/2017 1632 MS
Cadmium	0.40	5	0.19	J	µg/Filter	IO-3.5	07/19/2017 1632 MS
Chromium	56	5	0.165		µg/Filter	IO-3.5	07/19/2017 1632 MS
Lead	10	5	0.00999		µg/Filter	IO-3.5	07/19/2017 1632 MS
Manganese	314	5	0.0535		µg/Filter	IO-3.5	07/19/2017 1632 MS
Nickel	2.61	5	0.16	J	µg/Filter	IO-3.5	07/19/2017 1632 MS
Vanadium	2.75	5	0.388	J	µg/Filter	IO-3.5	07/19/2017 1632 MS
Filter Metals Concentration							
Arsenic	1.47	2.99	0.376	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ
Cadmium	0.239	2.99	0.114	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ
Chromium	33.5	2.99	0.0987		ng/m ³	IO-3.5	07/28/2017 1108 JJ
Lead	0.00581	0.00299	0.00000598		µg/m ³	IO-3.5	07/28/2017 1108 JJ
Manganese	188	2.99	0.032		ng/m ³	IO-3.5	07/28/2017 1108 JJ
Nickel	1.56	2.99	0.0957	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ
Vanadium	1.65	2.99	0.232	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ

These results apply only to the samples tested.

Qualifiers:

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- L Analyzed by another laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- C Calculated Value
- G Analyzed at IML Gillette laboratory
- J Analyte detected below quantitation limits
- M Value exceeds Monthly Ave or MCL or is less than LCL
- O Outside the Range of Dilutions
- X Matrix Effect

Reviewed by:

John Jacobs, Project Manager



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Sample Analysis Report**CLIENT:** Consolidated Analytical Systems

201 S. Miami Ave

Cleves, OH 45002

Date Reported: 7/28/2017**Report ID:** S1707250001**Client Sample ID:** 527.168 S4HV2-070917-R**Project:** S.H.Bell- Chicago, IL**Matrix:** airfilter**COC ID:** WEB**Collection Date:** 7/9/2017**Date Received:** 7/14/2017 10:50:00 AM**Lab ID:** S1707250-002**Work Order:** S1707250

Analyses	Result	RL	MDL	Qual	Units	Method	Date Analyzed/Init
Field							
Actual Volume	1659				m ³	Field	07/09/2017 000
IO-3.5 TSP							
Arsenic	1.59	5	0.628	J	µg/Filter	IO-3.5	07/19/2017 1655 MS
Cadmium	1.32	5	0.19	J	µg/Filter	IO-3.5	07/19/2017 1655 MS
Chromium	52	5	0.165		µg/Filter	IO-3.5	07/19/2017 1655 MS
Lead	9	5	0.00999		µg/Filter	IO-3.5	07/19/2017 1655 MS
Manganese	214	5	0.0535		µg/Filter	IO-3.5	07/19/2017 1655 MS
Nickel	2.64	5	0.16	J	µg/Filter	IO-3.5	07/19/2017 1655 MS
Vanadium	3.33	5	0.388	J	µg/Filter	IO-3.5	07/19/2017 1655 MS
Filter Metals Concentration							
Arsenic	0.956	3.01	0.379	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ
Cadmium	0.796	3.01	0.115	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ
Chromium	31.1	3.01	0.0995		ng/m ³	IO-3.5	07/28/2017 1108 JJ
Lead	0.00554	0.00301	0.0000602		µg/m ³	IO-3.5	07/28/2017 1108 JJ
Manganese	129	3.01	0.0322		ng/m ³	IO-3.5	07/28/2017 1108 JJ
Nickel	1.59	3.01	0.0964	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ
Vanadium	2.01	3.01	0.234	J	ng/m ³	IO-3.5	07/28/2017 1108 JJ

These results apply only to the samples tested.

Qualifiers:

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- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- L Analyzed by another laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

RL - Reporting Limit

- C Calculated Value
- G Analyzed at IML Gillette laboratory
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- X Matrix Effect

Reviewed by:

John Jacobs, Project Manager

Condition Upon Receipt (Attach to COC)

Revision Date: 6/14/17